Appl. No. 10/087,939 Response dated 12/20/2006

Reply to Office Action of 09/25/2005

## IN THE CLAIMS:

This listing of claims will replace all prior versions, and listing of claims, in the Application.

## Listing of claims:

 (Currently amended) A method of maintaining a two-byte identification field of an Internet protocol (IP) header of a packet of data, the packet of data being transmitted over a network, the method comprising the steps of:

determining whether the packet of data is permitted to be fragmented before being transmitted over the network, the network being a Gigabit Ethernet network wherein an identification number can be used more than once within a particular time span:

setting a re-assembly timer to 30 seconds; and

using a unique identification number in the IP header of the packet of data if the packet of data is permitted to be fragmented, the unique identification number being a number that will not be used in the IP header of any other packet of data within the particular time span; and

using a non-unique identification number in the IP header of the packet of data if the packet of data is not permitted to be fragmented, the non-unique identification number being a number that is used in the IP header of all packets of data that are not permitted to be fragmented to facilitate using unique identification numbers in the network.

Canceled.

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Canceled.

4. (Currently amended) The method of Claim 1 wherein a bit is set in the IP

header to indicate whether the packet is permitted to be fragmented.

5. (Original) The method of Claim 4 wherein the bit is set in a flag field of the

IP header.

6. (Currently amended) A computer program product on a computer

readable medium for maintaining a two-byte identification field of an

Internet protocol (IP) header of a packet  $\underline{\text{of data}}$ , the packet  $\underline{\text{of data}}$  being

transmitted over a network, the computer program product comprising:

code means for determining whether the packet  $\underline{\text{of data}}$  is permitted to be

fragmented before being transmitted over the network, the network being

a Gigabit Ethernet network wherein an identification number can be used more than once within a particular time span:

code means for setting a re-assembly timer to 30 seconds; and

code means for using a unique identification number in the IP header of

the packet of data if the packet of data is permitted to be fragmented, the unique identification number being a number that will not be used in the IP

header of any other packet of data within the particular time span; and

code means for using a non-unique identification number in the IP header

of the packet of data if the packet of data is not permitted to be

fragmented, the non-unique identification number being a number that is

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used in the IP header of all packets of data that are not permitted to be fragmented to facilitate using unique identification numbers in the network.

- Canceled.
- Canceled.
- (Currently amended) The computer program product of Claim 6 wherein a bit is set in the IP header to indicate whether the packet is permitted to be fragmented.
- (Original) The computer program product of Claim 9 wherein the bit is set in a flag field of the IP header.
- (Currently amended) An apparatus for maintaining a two-byte identification field of an Internet protocol (IP) header of a packet of data, the packet of data being transmitted over a network, the apparatus comprising:

means for determining whether the packet of data is permitted to be fragmented before being transmitted over the network, the network being a Gigabit Ethernet network wherein an identification number can be used more than once within a particular time span;

means for setting a re-assembly timer to 30 seconds; and

means for using a unique identification number in the IP header of the packet of data if the packet of data is permitted to be fragmented, the unique identification number being a number that will not be used in the IP header of any other packet of data within the particular time span; and

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means for using a non-unique identification number in the IP header of the packet of data if the packet of data is not permitted to be fragmented, the

non-unique identification number being a number that is used in the IP

header of all packets of data that are not permitted to be fragmented to

facilitate using unique identification numbers in the network.

Canceled.

Canceled.

14. (Currently amended) The apparatus of Claim 11 wherein a bit is set in the

IP header to indicate whether the packet is permitted to be fragmented.

15. (Original) The apparatus of Claim 14 wherein the bit is set in a flag field of

the IP header.

16. (Currently amended) A computer system for maintaining a two-byte

identification field of an Internet protocol (IP) header of a packet of data,

the packet of data being transmitted over a network, the computer system

comprising:

at least one memory device for storing code data; and

at least one processor for processing the code data to determine whether

the packet of data is permitted to be fragmented before being transmitted

over the network, the network being a Gigabit Ethernet network wherein

an identification number can be used more than once within a particular

time span, to set a re-assembly timer to 30 seconds, and use a unique

identification number in the IP header of the packet of data if the packet of

data is permitted to be fragmented, the unique identification number being

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a number that will not be used in the IP header of any other packet of data

within the particular time span, and to use a non-unique identification number in the IP header of the packet of data if the packet of data is not

permitted to be fragmented, the non-unique identification number being a

number that is used in the IP header of all packets of data that are not

permitted to be fragmented to facilitate using unique identification

numbers in the network.

Canceled.

18. Canceled.

19. (Currently amended) The computer system of Claim 16 wherein a bit is set

in the IP header to indicate whether the packet is permitted to be

fragmented.

20. (Original) The computer system of Claim 19 wherein the bit is set in a flag

field of the IP header.